



200

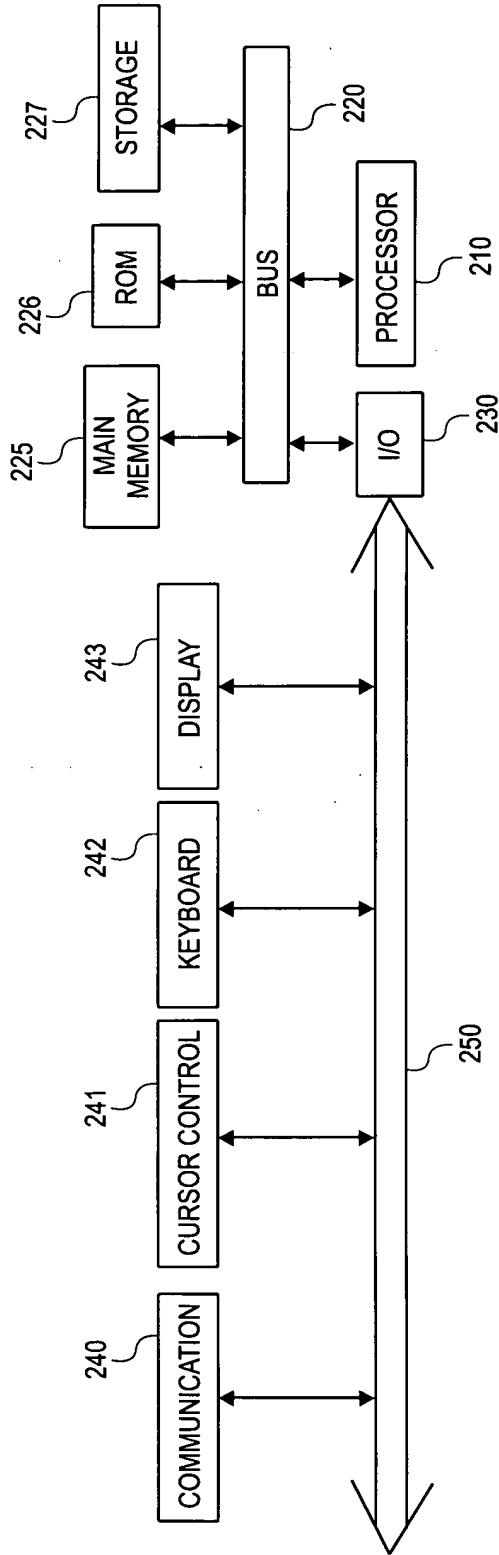


FIG. 1
(PRIOR ART)

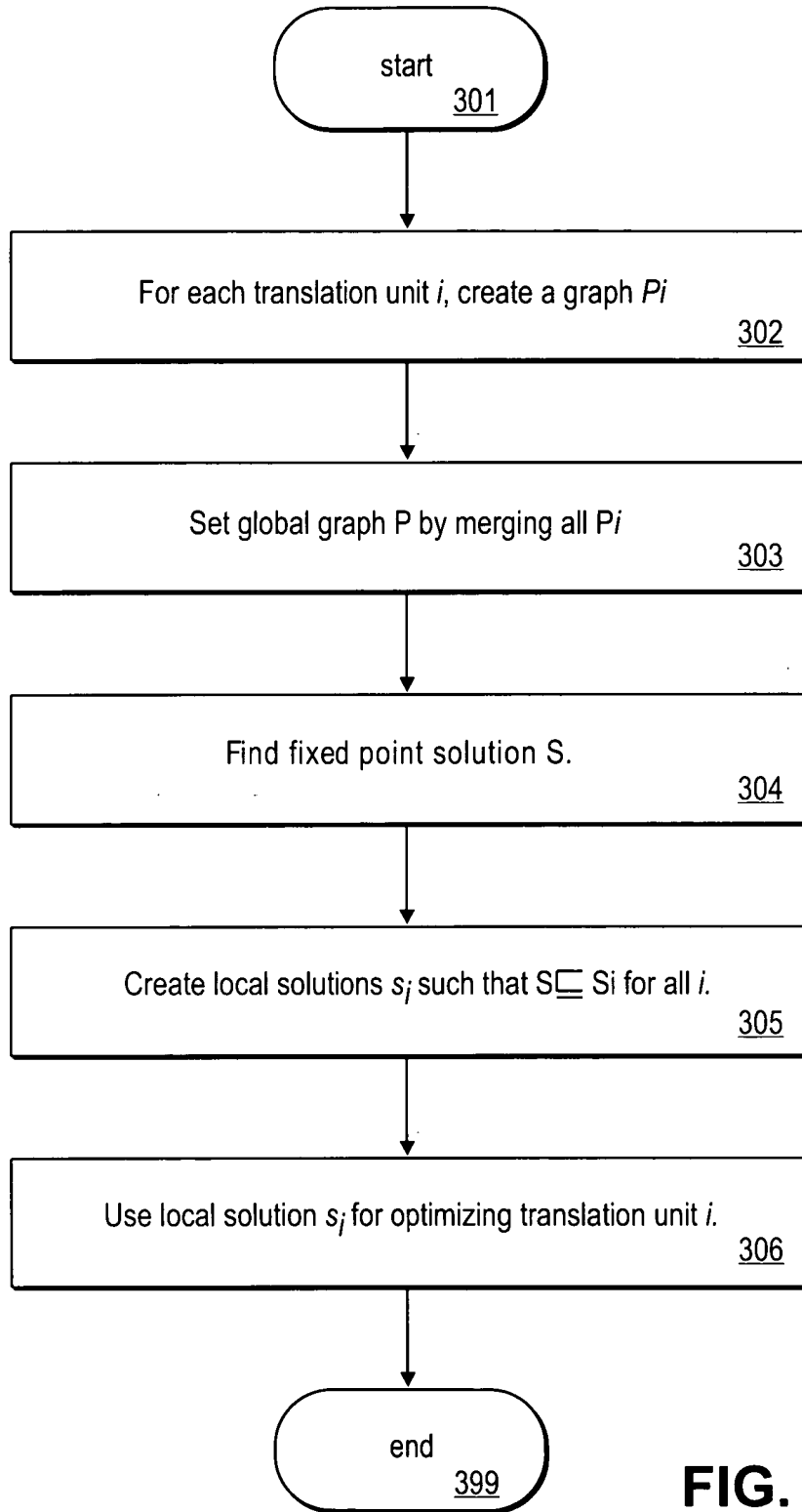


FIG. 3



REPLACEMENT SHEET

Title: Method And System For Interprocedural Side Effect Analysis
 1st Named Inventor: Arch D. Robison
 Application No.: 09/839910 Docket No.: 42390P11195
 Sheet: 3/3

Function	Function (x,y)
410 ~ TOP	(PURE,PURE)
420 ~ COPY	(y,y)
430 ~ IN_TO_LOST	if $y \leq l \Rightarrow$ (LOST,LOST) otherwise \Rightarrow (PURE,PURE)
440 ~ UNRETURN	
450 ~ COPY_AND_IN_TO_LOST	if $y = \text{LOST} \Rightarrow$ (LOST,LOST) otherwise \Rightarrow (z,z) where $z = y \sqcup OI$
460 ~ CAT_FORMAL	if $y \leq l \Rightarrow$ (LOST,LOST) otherwise \Rightarrow (y,y)
470 ~ CAT_ACTUAL	(y,PURE)
	(PURE,y)
480 ~ GATE	if $x = \text{LOST} \Rightarrow$ (LOST,LOST) else if $x < R \Rightarrow$ (z,z) where $z = (x \sqcup OI) \sqcap y$ else (z,z) where $z = (x \sqcup OI)$

FIG. 4A